UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

#### NOTICE OF ALLOWANCE AND FEE(S) DUE

34136 7590 Pepper Hamilton LLP 400 Berwyn Park 899 Cassatt Road Berwyn, PA 19312-1183 11/17/2011 EXAMINER
SCHNIZER, RICHARD A

ART UNIT PAPER NUMBER

DATE MAILED: 11/17/2011

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFRMATION NO.

 10/564/707
 06/30/2006
 Artemis G. Hatzigeorgiou
 13/06/40/2701
 15/74

TITLE OF INVENTION: METHOD AND SYSTEMS FOR IDENTIFYING MICRO-RNA TARGETS AND SYNTHESIZING NOVEL MICRO-RNAS AND USES OF THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$870	\$300	\$0	\$1170	02/17/2012

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. ISI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

IL PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

#### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address; and indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or bibliotic patentials of FEE ADDRESS\* for maintenance fee notification

34136 7590 11/17/2011 Pepper Hamilton LLP 400 Berwyn Park

899 Cassatt Road Berwyn, PA 19312-1183

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Feeds (Tansmitted is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (5/11) 273-2885, on the date indicated below.

(Depositor's name (Signate (Dat

APPLICATION NO FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO CONFIRMATION NO 10/564 707 06/30/2006 Artemis G. Hatzigeorgiou 130694 02701 1574

TITLE OF INVENTION: METHOD AND SYSTEMS FOR IDENTIFYING MICRO-RNA TARGETS AND SYNTHESIZING NOVEL MICRO-RNAS AND USES OF THE SAME

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nonprovisional	YES	\$870	\$300	\$0	\$1170	02/17/2012
EXAMINER		ART UNIT	CLASS-SUBCLASS			
SCHNIZER, RICHARD A		1635	702-020000			
I. Change of correspondence address or indication of "Fee Address" (37 CER 1.50).  Change of correspondence address (or Change of Correspondence Address form PTOSB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTOSB/123 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is insted, no name will be printed.		er a 2	

PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.	2 registered patent attorneys or agents. If no name is 3
3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON T	THE PATENT (print or type)
PLEASE NOTE: Unless an assignee is identified below, no assignee recordation as set forth in 37 CFR 3.II. Completion of this form is NO	data will appear on the patent. If an assignee is identified below, the document has been filed for $\Gamma$ a substitute for filing an assignment.
(A) NAME OF ASSIGNEE	(B) RESIDENCE: (CITY and STATE OR COUNTRY)
Please check the appropriate assignee category or categories (will not be pr	inted on the patent): Individual Corporation or other private group entity Government
4a. The following fee(s) are submitted: 4b	p. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)
☐ Issue Fee	A check is enclosed.
☐ Publication Fee (No small entity discount permitted)	☐ Payment by credit card. Form PTO-2038 is attached.
Advance Order - # of Copies	The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).
5. Change in Entity Status (from status indicated above)	
a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.	□ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).
NOTE: The Issue Fee and Publication Fee (if required) will not be accepted interest as shown by the records of the United States Patent and Trademark	from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in Office.

Authorized Signature Date Typed or printed name Registration No.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for rectucing this burden, should be sent to the Chief Information Officer. U.S. Patest and Trademark Officer. U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 2231-450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 2231-450.

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## UNITED STATES PATENT AND TRADEMARK OFFICE

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SCHNIZER, RICHARD A

ART UNIT PAPER NUMBER

1635

DATE MAILED: 11/17/2011

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 381 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 381 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

### Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the Freedom
  of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of
  records may be disclosed to the Department of Justice to determine whether disclosure of these
  records is required by the Freedom of Information Act.
- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement neeotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2004 and 2006. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

	Application No.	Applicant(s)			
Notice of Allowability	10/564,707	HATZIGEORGIOU ET AL.			
Notice of Allowability	Examiner	Art Unit			
	RICHARD SCHNIZER	1635			
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously malled), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	lication. If not included will be mailed in due course. THI			
<ol> <li>This communication is responsive to <u>9/22/2011</u>.</li> </ol>					
<ol> <li>An election was made by the applicant in response to a rest requirement and election have been incorporated into this action.</li> </ol>	riction requirement set forth during th	ne interview on; the restrict	tion		
<ol> <li>The allowed claim(s) is/are <u>19-22,29,30,32,33 and 35-48</u>.</li> </ol>					
	been received.				
<ol><li>Certified copies of the priority documents have been received in Application No</li></ol>					
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in this r	national stage application from the	е		
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>					
6. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.					
<ul> <li>(a) including changes required by the Notice of Draftspers</li> </ul>	on's Patent Drawing Review ( PTO-	948) attached			
<ol> <li>hereto or 2)  to Paper No./Mail Date</li> </ol>					
<ul><li>(b)  including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	Amendment / Comment or in the O	ffice action of			
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawin ne header according to 37 CFR 1.121(c	gs in the front (not the back) of d).			
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit of B attached Examiner's comment regarding REQUIREMENT FC</li> </ol>					
Augustin					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal Page 1	atent Application			
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary				
3. ⊠ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7.  Examiner's Amendr				
Paper No./Mail Date <u>7-23-2007</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ☑ Examiner's Stateme	nt of Reasons for Allowance			
of Biological Material	_				
IDIQUADD COUNTED!	9. Other				
/RICHARD SCHNIZER/ Primary Examiner, Art Unit 1635					
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